

# RF Exposure Evaluation Report

Product Name	WMI
Model No.	D-WMI2017B
FCC ID.	KR5DWMI2017B
IC ID.	7812D-DWMI2017B

Applicant	Continental Automotive GmbH
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Date of Receipt	Apr. 24, 2017
Date of Declaration	Jul. 06, 2017
Report No.	1740541R-RFUSP02V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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## 1. RF Exposure Evaluation

### 1.1. Test Equipment

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Radiation Meters	WG	EMR-20 / Y-0028	Oct., 2016

### 1.2. Description of the variants

The different of each variant is shown as below:

Variants	Description
A2C1104930	No antenna PCB
A2C1104940	With PCB antenna & GSM coupler
A2C1384530	No antenna PCB
A2C1384540	With PCB antenna for GSM coupler and contains Fakra Connector
A2C1714380	No antenna PCB

### 1.3. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/F	4.89/F	*(900/F <sup>2</sup> )	6
30-300	61.4	0.163	1	6
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/F	2.19/F	*(180/F <sup>2</sup> )	30
300-1500	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100,000	--	--	1	30

Note:

1. RF Exposure evaluation should be conducted assuming a separation distance of 10 cm

### 1.4. Test Procedure

Was tested for electric and magnetic field strength emissions, all six sides of the EUT were measured with the loop sensor positioned at a distance of 10 cm per the FCC 's request. (reference KDB 680106 D01 RF Exposure Wireless Charging Apps v02)

The temperature and related humidity: 18°C and 62% RH.

### 1.5. Test Result of RF Exposure Evaluation

Product : WMI  
 Test Item : RF Exposure Evaluation  
 Test Site : No.7 Chamber  
 Test Date : 2017/05/24

#### E-Field Emissions

Test Position	Frequency (KHz)	Measure Level @ 10cm (V/m)	Limit (V/m)	30% Limit (V/m)	Result
Side 1	113.6	1.720	614	184	PASS
Side 2	113.6	1.220	614	184	PASS
Side 3	113.6	1.440	614	184	PASS
Side 4	113.6	1.970	614	184	PASS
Top	113.6	3.210	614	184	PASS
Bottom	113.6	0.830	614	184	PASS

Note: All sides of EUT measured at 10cm

#### H-Field Emissions

Test Position	Frequency (KHz)	Measure Level @ 10cm (A/m)	Limit (A/m)	30% Limit (A/m)	Result
Side 1	113.6	0.005	1.63	0.489	PASS
Side 2	113.6	0.003	1.63	0.489	PASS
Side 3	113.6	0.004	1.63	0.489	PASS
Side 4	113.6	0.005	1.63	0.489	PASS
Top	113.6	0.008	1.63	0.489	PASS
Bottom	113.6	0.002	1.63	0.489	PASS

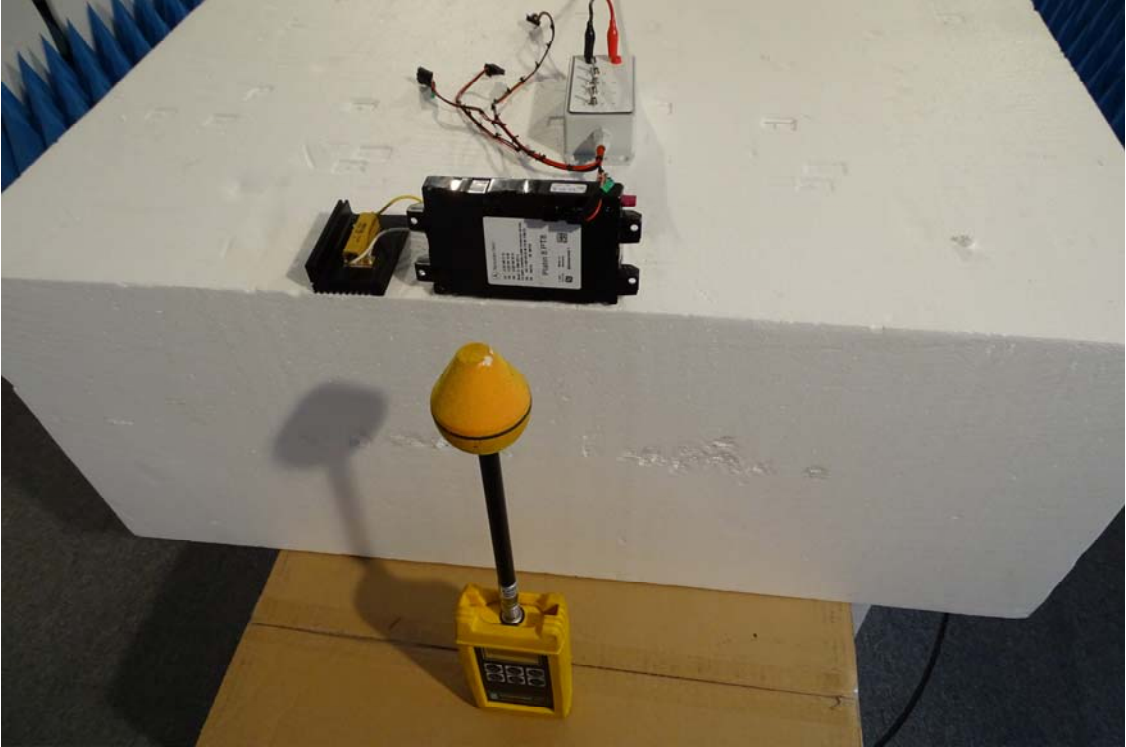
Note: All sides of EUT measured at 10cm

1.6. EUT Test Setup Photographs

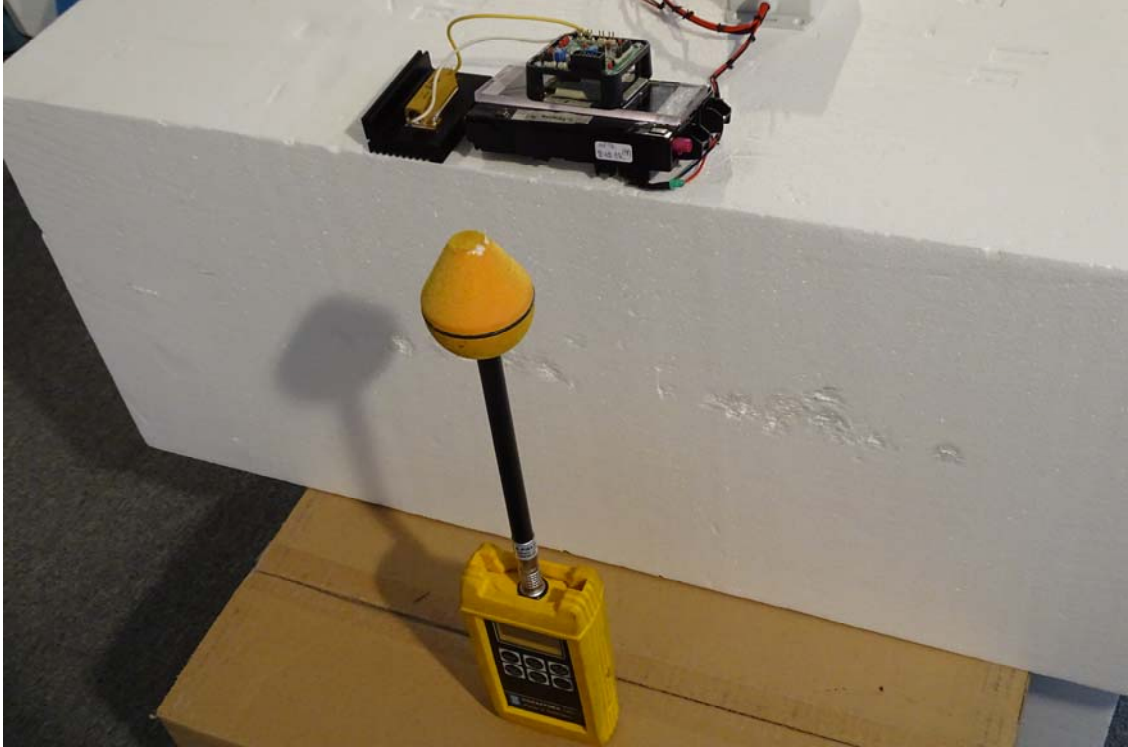
Side 1



Side 2



Side 3



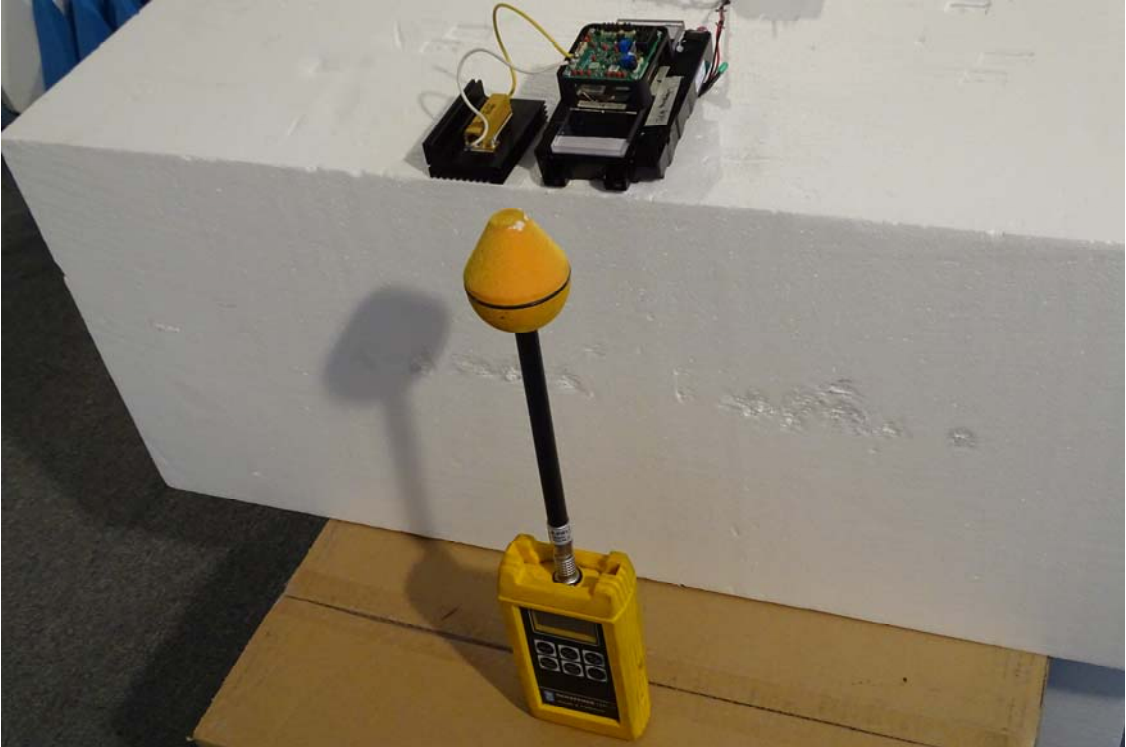
Side 4



**Top**



**Bottom**





Close-up

